

IN THE CLAIMS

1. (Canceled) .
2. (Canceled) .
3. (Canceled) .
4. (Canceled) .
5. (Canceled) .
6. (Canceled) .
7. (Canceled) .
8. (Canceled) .

9. (Currently Amended) An apparatus for intact testing of an object, comprising, in combination:

means for scanning the intact object mounted on a robot;
and

comparison means to correlate data from the scanning means to a standard;

a structure configured to contain said apparatus and said object under inspection;

said apparatus is coupled to said structure, resulting in the formation of a gantry for supporting a carriage, a mast mounted on said carriage and at least one of an emitter and detector mounted on said mast which forms in part at least one inspection robot capable of precise positioning over large ranges of motion;

said at least one inspection robot further comprises a beam structure for supporting and allowing horizontal translation of said carriage;

said carriage is coupled to said mast, wherein said mast supports and allows a vertical translation of said at least one of the emitter and detector mounted on said mast, and wherein said mast is configured to provide yaw movement of said at least one of the emitter and detector; and

said at least one of the emitter and detector is configured to provide rotation about at least one axis of roll and yaw motion of said at least one emitter and detector;

means for determining that scanning is performed through the entire gantry free of obstruction.

10. (Original) The apparatus of Claim 9, wherein said scanning means includes ultrasonics.

11. (Original) The system of Claim 9, wherein at least one of the emitter and detector is configured to provide rotation about an axis of pitch motion of said at least one emitter and detector.

12. (Original) The system of Claim 9, wherein said at least one of the emitter and detector is configured to a yoke to provide rotation about at least one axis of pitch and roll motion of said at least one of the emitter and detector.

13. (Canceled).

14. (Canceled).

15. (Canceled).

16. (Canceled).

17. (Canceled).

18. (Canceled).

19. (Canceled).

20. (Canceled).

21. (Canceled).

22. (Canceled).

23. (Canceled).

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24. (Canceled).

25. (Canceled).